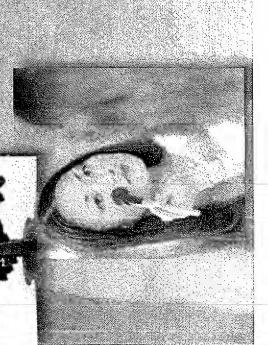
FemmePharma Global Healthcare, Inc.

Delivering the officerics in Momen's Mealthoare · Permire Pharma



Transdernal vs Mammary vs Topical Delivery

- Transdermal Delivery
- > Through the skin with the intent of systemic delivery
- Bypass Intestinal and hepatic metabolism
- Usually applied at site remote to target organ



FermoManna

Transdermal vs Mammary vs Topical Delivery

- Mammary Delivery
- > Through the skin with the intent of regional delivery to underlying breast dissue
- > Amalogous to pulmonary or intranasal administration
- > Achieve high regional concentrations for Dinging at receptors in the breast
- Minimal systemic exposure



Femmelhama

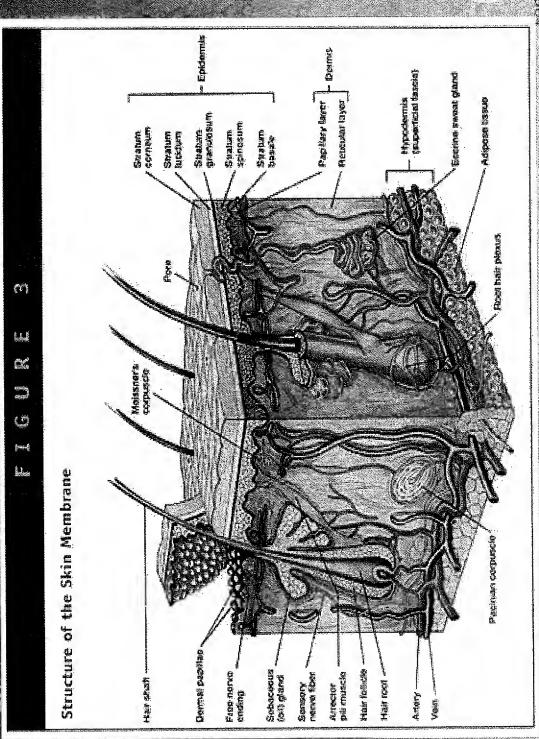
Transdermal Vs Mammary vs Topical Delivery

- Topical Dermal Delivery
- Direct application to the skin with the intent of working within the skin itself
- > Minimal systemic or regional involvement.



Pennie Pharma

Anatomy of Normal Skin



emme/tama

Vaginal Epithelium

Figure 2

The Vaginal Epithelium

Superficial cells

Intermediate cells

Parabasal cells

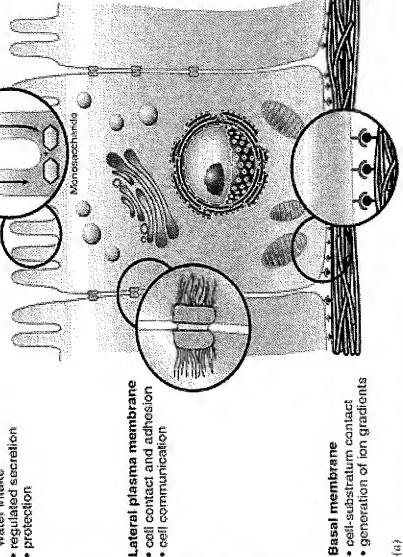
Basal cells

Apical plasma membrane

Olisaccharlds

Glucose

- * regulation of nutrient and water intake regulated secretion
 - - protection



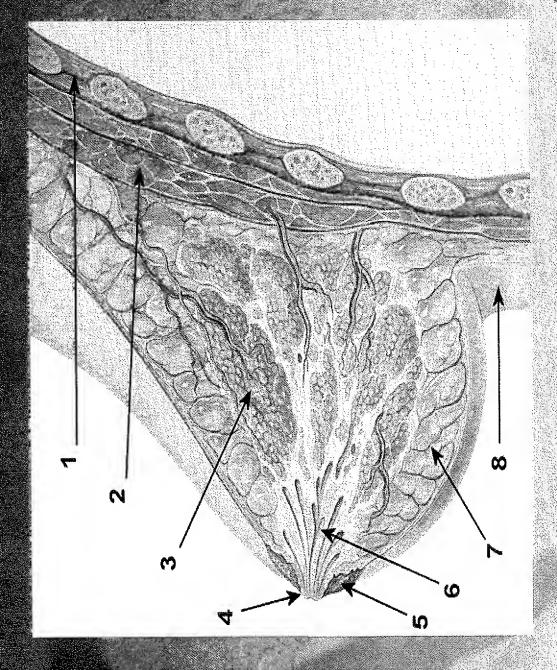
Basal membrane

- cell-substratum contact
- · generation of ion gradients

Cocydigis 1999 John Waley and Some, fing. All rights reserved.

Femnel/harma

Anatomy of the Female Breast



Composition and the second

Formulation Comparisons

SAME	
800	1 63
5000 T	60.0
000	100
SOL BOOK	200
	A Lab
	200
10 TO	200
日 4 版	518
29	MIX
V5.64	NO S
S. C. Carrier	
200	500
100	100
	120
20 XXX	1.2
	188
	1000
March World	-116
200	\$89
1 To . 1 To .	100
4 45	100
	AS.
All lines	48
	722
100	A533
	120
4.4	
Application Site	VS.
1000	1123
	22
	100
311.12	100
	_
	400
100	

- Indication
- Appearance

Breast Breast Pain Colorless-yellow

Vagina Endometriosis White, opaque

Properties

Gel with danazol

Gel with solubilized

semi-lucenit

dinge, clear,

in suspension

Micro/manoparticles

||None

Enhancer/Solubilizing

Particle Size

Solution

damazol

- Exciplents
- Danazol
 Concentration

2% (w/w) 47%

47% (W/W)

Volume

> Irnl/breast

200ul

Femmer harma

Reviewer's Comments NO Application

- Transdermal for systemic drug administration
- > FP contemplates high breast levels with minimal systemic concentrations

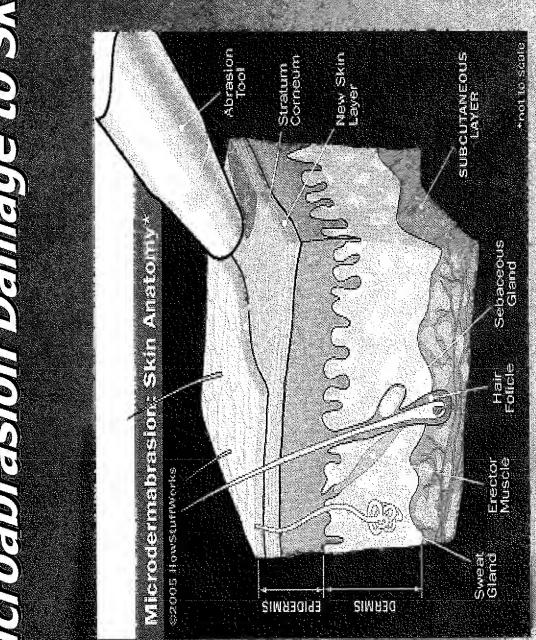


femilie manne

Sun Induced Damage to Skin

Melanin evensy supporting skin structure is strong and resident pigment cells distribute mery skin cells Corneim is stim and twefrated are healthy and fall corrected Statums HEALTHY SKIN DEHWIR SMORRAL excess melanin misshapen and causes freckes collagen and elastin fibers are weak and damaged and age spots Strottum Comeuna is Unitek amel delipotistesi dispreganized skin ceals are DAMAGED SKIN DEBMIZ EPIDERMIS

FemmePharma



Time Mama

comparative Pharmacokinetics of Oral and Mammary Applied Danazol

Approved oral danazol for FBD 50 to 200 mg twice daily

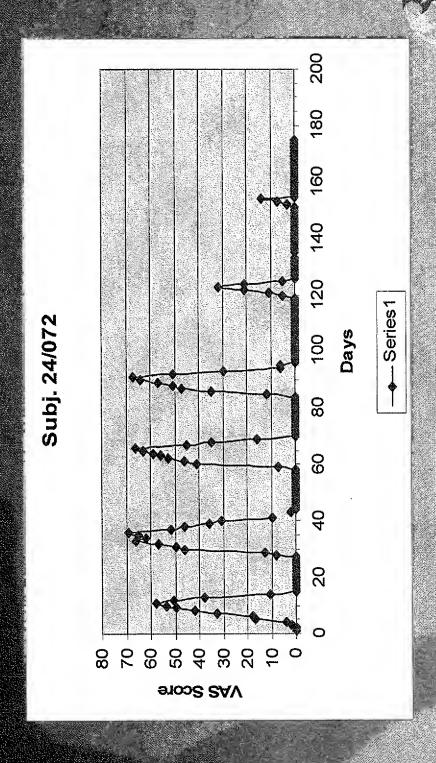
Oral 200 mg twice daily cmax ~180 ng/ml

Danazol Gel 30 mg once daily Cmax <2.75 ng/ml



Femme Pharma

Paim Reduction with Danazol Gel in Breast Disease



Brench Frazier, Jennifer Kins Fam104 2/2/20 Ple ANR
Gend Piano Peter Mayer John Zemniah

Gend Piano Peter Mayer John Zemniah

Gond Piano Peter Mayer John Zemniah

Mented Town

arear of preofert: Chalsmethiosa

mary incombrene phantal

Abordytis break disease

Phan The Chinical trial

for pain associated of Strocystic break disease danarole administered systemically has
significant andropenis side effect
no other treatment
affects 26M woman in U no systemic side effects in clinical trial
still looking at doje JZ-WO 00/72 883

Into shin not transdome!

Reparticle are not dissolved who hy = 5 doiet are diliver 3 = glopel - water + viscosity modific & crystalling struck
3 = tylhoal wholis - water + alcohol + penetration enhance 2/2/2010 22 - danard i not robble is not GD; - danarde could ke administered Rapavan - PVP
PM - 2-pyrolodini
N-methyl-2-pyrokodi Conjugaren to diterature No transferral penetrati to brear

Amendment

In the claims

1. (currently amended) A drug formulation comprising

a drug selected from the group consisting danazol[[,]] bromocriptine, and luteinizing hormone releasing hormone (LHRH) analogues in an amount effective to provide regional providing regionally effective, not systemic systemically effective, levels of danazole when administered transdermally to the breast, to provide relief from benign diseases or disorders of the breast,

wherein the danazole is formulated in a hydroalcoholic gel pharmaceutical carrier

And the description of the danazole is formulated in a hydroalcoholic gel pharmaceutical carrier

comprising a transdermal penetration enhancer in which the danazolis soluble to enable promote

in an effective and to delivery of the drug danazol across the stratum corneum to the breast tissue.

2.-9. (cancelled)

10. (withdrawn, currently amended) A method for treating a disease or disorder of the breast comprising

topically administering to the breast of a patient,

a drug formulation suitable for local or regional delivery comprising an effective amount of drug selected from the group consisting of danazol[[,]] bromocriptine, and luteinizing hormone-releasing hormone (LHRH) analogues,

in an amount effective to provide regional providing regionally effective, not systemic systemically effective, levels of danazole when administered transdermally to the breast, to provide relief from benign diseases or disorders of the breast.

Jan.

wherein the danazole is formulated in a hydroalcoholic gel pharmaceutical earrier comprising a transdermal penetration enhancer in which the danazol is soluble to enable promote delivery of the drug danazol across the stratum corneum to the breast tissue.

- 11-16. (cancelled)
- 17. (withdrawn, previously presented) The method of claim 10 wherein the benign disease of the breast is selected from the group consisting of mastalgia, mastodynia, Mondor's, disease, fibrocystic breast disease, costochondritis, mastitis, Paget's disease of the arcola, fibroadenoma, breast abscess, and breast infections.
 - 18. (cancelled)
- 19. (withdrawn, previously presented) The method of claim 10 wherein the region is the breast, areola, and underlying musculature of the chest.